

NOVEMBER/DECEMBER 2023

**GEAM34B/DEAM34B — RESEARCH
METHODOLOGY**

Time : Three hours

Maximum : 75 marks



SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define Research.
2. What is research ethics?
3. What is an abstract?
4. What is appendix?
5. What is arithmetic mean?
6. Define median.
7. Define correlation.
8. Write the formula of Spearman's rank correlation.
9. What is a sample?
10. Define probability sampling.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Briefly summarize the principles of experimental designs.

Or

- (b) Write a brief note on collection of literature from various sources.

12. (a) Comment on parenthetical referencing and Van Couver style of reference systems.

Or

- (b) Elucidate the components of a research report.

13. (a) What is mode? List out the merits and demerits of it.

Or

- (b) With suitable examples explain the measures of dispersion and its types.

14. (a) Explain the types and methods of studying correlation.

Or

- (b) What is regression analysis? Explain the types.

15. (a) Write a brief note on standard error.

Or

- (b) Comment on the concept of sampling distributions.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss in detail about the essential steps in selection and formulation of research problem.

17. Outline the logical formatting and typing a research report.

18. Explain the methods of data collection.

19. Find out the correlation co-efficient for the following data.

Age	43	55	36	63	49	60	38	72
Blood pressure	140	150	116	150	143	155	116	158

20. Explain any five sampling techniques with their merits and demerits.